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Preface

Since 1988 the aim of the Symposia and Workshops on “Programming Language Implementation and Logic Programming” is to explore declarative concepts, methods and techniques relevant for the implementation of all kinds of programming languages, whether algorithmic or declarative ones.

The third PLILP Symposium which took place at the University of Passau, Germany, August 26–28, 1991, gathered researchers from the fields of algorithmic programming languages as well as logic, functional and object-oriented programming.

This issue contains revised and extended versions of five papers selected by the program committee from 32 papers presented during PLILP '91 ranging from program transformation to constraint satisfaction in equational logic programming, through abstract interpretation and determinism detection in functional languages, including parser-independent definition of programming languages with infix operators.

We sincerely hope that this special issue of *Theoretical Computer Science* will help to show the relevance of the declarative approach for the implementation of programming languages.

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Guest Editors